

# METHOD VALIDATION DRAEGER ALCOTEST 9510

## INTERFERENCE/ ACETONE

DRAEGER ALCOTEST 9510 SERIAL NUMBER: ARAF - 0023

Sim. Serial Number: DR4971 Thermometer Serial Number: DR4971

REAGENT LOT NUMBER: 113751

Acetone	I/R		E/C		Interference Detected? Y/N
	VALUE SAMPLE1	VALUE SAMPLE2	VALUE SAMPLE2	VALUE SAMPLE2	
0.000	0.000	0.000	0.000	0.000	N
0.150	0.000	0.000	0.000	0.000	N
0.300	0.001	0.001	0.000	0.000	N
0.450	0.002	0.002	0.000	0.000	N
0.600	0.003	0.002	0.000	0.000	N
0.750	0.004	0.004	0.000	0.000	N
0.900	0.005	0.004	0.000	0.000	N
1.050	0.006	0.006	0.000	0.000	N
1.200	0.006	0.006	0.000	0.000	N
1.350	0.007	0.006	0.000	0.000	N
1.500	0.007	0.007	0.000	0.000	N
1.650	0.008	0.007	0.000	0.000	N
1.800	0.009	0.008	0.000	0.000	N
1.950	0.009	0.009	0.000	0.000	N
2.100	0.010		0.000		Y

Attach all 9510 printed documents

William Bogen  
NAME OF TECHNICIAN PERFORMING TEST/S

4-25-2013  
DATE TESTED

E. McCaert  
NAME OF TECHNICIAN REVIEWING TEST/S

4-25-13  
DATE REVIEWED

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0023  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **12:00**  
 Citation/Case Number: **TEST/H20/ONLY**  
 Operator Name: **BOGEN/WILLIAM/A**  
 Subject Name: **TEST/WATER/ONLY/-**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

DR4971

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	12:23		
Internal Standard	VERIFIED	12:24		
Subject Sample 1			2.1	8.9
IR Result	<b>0.000</b>	12:24		
EC Result	<b>0.000</b>	12:24		
Blank Test	0.000	12:25		
Internal Standard IR	0.081	12:25		
External Standard EC	0.081	12:25		
Blank Test	0.000	12:27		
Subject Sample 2			2.5	11.8
IR Result	<b>0.000</b>	12:27		
EC Result	<b>0.000</b>	12:27		
Blank Test	0.000	12:28		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

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EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0023  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **12:00**  
 Citation/Case Number: **TEST/ACETONE.15**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/0.15/ A/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	13:50		
Internal Standard	VERIFIED	13:50		
Subject Sample 1			2.0	7.9
IR Result	<b>0.000</b>	13:51		
EC Result	<b>0.000</b>	13:51		
Blank Test	0.000	13:52		
External Standard IR	0.081	13:52		
External Standard EC	0.081	13:52		
Blank Test	0.000	13:53		
Subject Sample 2			2.0	9.0
IR Result	<b>0.000</b>	13:54		
EC Result	<b>0.000</b>	13:54		
Blank Test	0.000	13:55		

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 ALCOTEST 9510 SERIAL NUMBER ARAF-0023  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **15:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/0.300/ A/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	15:41		
Internal Standard	VERIFIED	15:42		
Subject Sample 1			1.8	7.4
IR Result	<b>0.001</b>	15:43		
EC Result	<b>0.000</b>	15:43		
Blank Test	0.000	15:43		
External Standard IR	0.081	15:44		
External Standard EC	0.081	15:44		
Blank Test	0.000	15:45		
Subject Sample 2			1.8	7.3
IR Result	<b>0.001</b>	15:46		
EC Result	<b>0.000</b>	15:46		
Blank Test	0.000	15:47		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/0.450/ A/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	08:35		
Internal Standard	VERIFIED	08:35		
Subject Sample 1			1.7	6.9
IR Result	<b>0.002</b>	08:36		
EC Result	<b>0.000</b>	08:36		
Blank Test	0.000	08:37		
External Standard IR	0.081	08:37		
External Standard EC	0.081	08:37		
Blank Test	0.000	08:38		
Subject Sample 2			1.7	7.2
IR Result	<b>0.002</b>	08:39		
EC Result	<b>0.000</b>	08:39		
Blank Test	0.000	08:40		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/WILLIAM/A**  
 Subject Name: **TEST/ACETONE/ 0.600/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	08:51		
Internal Standard	VERIFIED	08:51		
Subject Sample 1			1.7	7.3
IR Result	<b>0.003</b>	08:52		
EC Result	<b>0.000</b>	08:52		
Blank Test	0.000	08:53		
Internal Standard IR	0.081	08:53		
External Standard EC	0.080	08:53		
Blank Test	0.000	08:54		
Subject Sample 2			1.7	6.9
IR Result	<b>0.002</b>	08:55		
EC Result	<b>0.000</b>	08:55		
Blank Test	0.000	08:55		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 0.750/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	09:07		
Internal Standard	VERIFIED	09:08		
Subject Sample 1			1.7	6.7
IR Result	<b>0.004</b>	09:09		
EC Result	<b>0.000</b>	09:09		
Blank Test	0.000	09:09		
External Standard IR	0.081	09:10		
External Standard EC	0.080	09:10		
Blank Test	0.000	09:11		
Subject Sample 2			1.7	7.1
IR Result	<b>0.004</b>	09:12		
EC Result	<b>0.000</b>	09:12		
Blank Test	0.000	09:12		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 0.900/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	09:21		
Internal Standard	VERIFIED	09:21		
Subject Sample 1			1.8	6.4
IR Result	<b>0.005</b>	09:22		
EC Result	<b>0.000</b>	09:22		
Blank Test	0.000	09:23		
External Standard IR	0.081	09:23		
External Standard EC	0.080	09:23		
Blank Test	0.000	09:25		
Subject Sample 2			1.8	7.2
IR Result	<b>0.004</b>	09:25		
EC Result	<b>0.000</b>	09:25		
Blank Test	0.000	09:26		

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SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 1.050/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	09:35		
Internal Standard	VERIFIED	09:36		
Subject Sample 1			1.8	7.2
IR Result	<b>0.006</b>	09:37		
EC Result	<b>0.000</b>	09:37		
Blank Test	0.000	09:37		
External Standard IR	0.081	09:37		
External Standard EC	0.080	09:37		
Blank Test	0.000	09:39		
Subject Sample 2			1.8	6.7
IR Result	<b>0.006</b>	09:39		
EC Result	<b>0.000</b>	09:39		
Blank Test	0.000	09:40		

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SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 1.200/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	09:47		
Internal Standard	VERIFIED	09:48		
Subject Sample 1			2.0	8.0
IR Result	<b>0.006</b>	09:49		
EC Result	<b>0.000</b>	09:49		
Blank Test	0.000	09:50		
Internal Standard IR	0.080	09:50		
External Standard EC	0.080	09:50		
Blank Test	0.000	09:51		
Subject Sample 2			2.1	7.7
IR Result	<b>0.006</b>	09:52		
EC Result	<b>0.000</b>	09:52		
Blank Test	0.000	09:52		

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SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 0.1350/ -**  
 Subject Date of Birth: **12/12/1999**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	09:56		
Internal Standard	VERIFIED	09:56		
Subject Sample 1			1.9	7.5
IR Result	<b>0.007</b>	09:57		
EC Result	<b>0.000</b>	09:57		
Blank Test	0.000	09:58		
External Standard IR	0.081	09:58		
External Standard EC	0.080	09:58		
Blank Test	0.000	10:00		
Subject Sample 2			2.0	8.1
IR Result	<b>0.006</b>	10:00		
EC Result	<b>0.000</b>	10:00		
Blank Test	0.000	10:01		

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 SOFTWARE VERSION 8322798 0.6  
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 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 1.500/ -**  
 Subject Date of Birth: **12/12/1999**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	10:14		
Internal Standard	VERIFIED	10:14		
Subject Sample 1			2.4	10.3
IR Result	<b>0.007</b>	10:16		
EC Result	<b>0.000</b>	10:16		
Blank Test	0.000	10:16		
External Standard IR	0.081	10:16		
External Standard EC	0.080	10:16		
Blank Test	0.000	10:18		
Subject Sample 2			2.4	10.4
IR Result	<b>0.007</b>	10:19		
EC Result	<b>0.000</b>	10:19		
Blank Test	0.000	10:20		

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SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/WILLIAM/A**  
 Subject Name: **TEST/ACETONE/ 1.650/ -**  
 Subject Date of Birth: **12/12/1999**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:25		
Internal Standard	VERIFIED	10:25		
Subject Sample 1			2.1	7.9
IR Result	<b>0.008</b>	10:26		
EC Result	<b>0.000</b>	10:26		
Blank Test	0.000	10:27		
External Standard IR	0.081	10:27		
External Standard EC	0.080	10:27		
Blank Test	0.000	10:29		
Subject Sample 2			2.2	10.2
IR Result	<b>0.007</b>	10:29		
EC Result	<b>0.000</b>	10:29		
Blank Test	0.000	10:30		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 1.800/ -**  
 Subject Date of Birth: **12/12/1999**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	10:37		
Internal Standard	VERIFIED	10:37		
Subject Sample 1			1.7	7.0
IR Result	<b>0.009</b>	10:38		
EC Result	<b>0.000</b>	10:38		
Blank Test	0.000	10:39		
External Standard IR	0.081	10:39		
External Standard EC	0.080	10:39		
Blank Test	0.000	10:41		
Subject Sample 2			1.8	7.6
IR Result	<b>0.008</b>	10:41		
EC Result	<b>0.000</b>	10:41		
Blank Test	0.000	10:42		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0023  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 1.950/ -**  
 Subject Date of Birth: **12/12/1999**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:47		
Internal Standard	VERIFIED	10:47		
Subject Sample 1			1.9	8.4
IR Result	<b>0.009</b>	10:48		
EC Result	<b>0.000</b>	10:48		
Blank Test	0.000	10:49		
External Standard IR	0.081	10:49		
External Standard EC	0.080	10:49		
Blank Test	0.000	10:50		
Subject Sample 2			1.9	8.7
IR Result	<b>0.009</b>	10:51		
EC Result	<b>0.000</b>	10:51		
Blank Test	0.000	10:52		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0023  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BOGEN/ WILLIAM/ A**  
 Subject Name: **TEST/ACETONE/ 2.100/ -**  
 Subject Date of Birth: **12/12/2000**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:57		
Internal Standard	VERIFIED	10:58		
Subject Sample 1			2.0	7.8
IR Result	<b>0.010</b>	10:59		
EC Result	<b>0.000</b>	10:59		
Blank Test	-----	--:--		
Internal Standard IR	-----	--:--		
External Standard EC	-----	--:--		
Blank Test	-----	--:--		
Subject Sample 2			-----	-----
IR Result	-----	--:--		
EC Result	-----	--:--		
Blank Test	-----	--:--		

**Test Not Complete: Status Code 8**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_



# METHOD VALIDATION DRAEGER ALCOTEST 9510

## INTERFERENCE/ ACETONE

DRAEGER ALCOTEST 9510 SERIAL NUMBER: ARAH-0081

Sim. Serial Number: DR4971 Thermometer Serial Number: DR4971

REAGENT LOT NUMBER: 113751

Acetone	I/R VALUE SAMPLE1	I/R VALUE SAMPLE2	E/C VALUE SAMPLE1	E/C VALUE SAMPLE2	Interference Detected? Y/N
0.000	0.000	0.000	0.000	0.000	N
0.150	0.000	0.000	0.000	0.000	N
0.300	0.001	0.001	0.000	0.000	N
0.450	0.003	0.002	0.000	0.000	N
0.600	0.004	0.003	0.000	0.000	N
0.750	0.005	0.004	0.000	0.000	N
0.900	0.006	0.005	0.000	0.000	N
1.050	0.006	0.006	0.000	0.000	N
1.200	0.006	0.006	0.000	0.000	N
1.350	0.006	0.006	0.000	0.000	N
1.500	0.007	0.007	0.000	0.001	N
1.650	0.009	0.008	0.000	0.000	N
1.800	0.009	0.008	0.000	0.000	N
1.950	0.010	0.009	0.000	0.000	N
2.100	0.010	0.009	0.000	0.001	N

Attach all 9510 printed documents

<u>E. McCourt</u>	<u>4/24-25/13</u>
NAME OF TECHNICIAN PERFORMING TEST/S	DATE TESTED
<u>William Bogen</u>	<u>4-25-2013</u>
NAME OF TECHNICIAN REVIEWING TEST/S	DATE REVIEWED

# METHOD VALIDATION DRAEGER ALCOTEST 9510

## INTERFERENCE/ ACETONE

DRAEGER ALCOTEST 9510 SERIAL NUMBER: ARAH-2081

Sim. Serial Number: DR4971 Thermometer Serial Number: DR4971

REAGENT LOT NUMBER: 113751

Acetone	I/R VALUE	E/C VALUE	Interference Detected? Y/N
0.000	0	0	N
0.150	0	0	N
0.300			
0.450			
0.600			
0.750			
0.900			
1.050			
1.200			
1.350			
1.500			
1.650			
1.800			
1.950			
2.100			

Attach all 9510 printed documents

NAME OF TECHNICIAN PERFORMING TEST/S

DATE TESTED

NAME OF TECHNICIAN REVIEWING TEST/S

DATE REVIEWED

*Alcotest*  
*.00*

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
Observation Period Began: **11:30**  
Citation/Case Number: **TEST**  
Operator Name: **MCCOURT/ ELIZABETH/ A**  
Subject Name: **MCCOURT/ E/ A**  
Subject Date of Birth: **01/01/2000**  
External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	12:34		
Internal Standard	VERIFIED	12:35		
Subject Sample 1			1.8	10.1
IR Result	<b>0.000</b>	12:36		
EC Result	<b>0.000</b>	12:36		
Blank Test	0.000	12:36		
External Standard IR	0.079	12:36		
External Standard EC	0.077	12:36		
Blank Test	0.000	12:38		
Subject Sample 2			1.9	8.9
IR Result	<b>0.000</b>	12:39		
EC Result	<b>0.000</b>	12:39		
Blank Test	0.000	12:39		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature \_\_\_\_\_ Date \_\_\_\_\_  
Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **13:00**  
 Citation/Case Number: **ACETONE**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

*Acetone  
15*

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	14:06		
Internal Standard	VERIFIED	14:06		
Subject Sample 1			1.9	9.0
IR Result	<b>0.000</b>	14:07		
EC Result	<b>0.000</b>	14:07		
Blank Test	0.000	14:08		
External Standard IR	0.078	14:08		
External Standard EC	0.077	14:08		
Blank Test	0.000	14:09		
Subject Sample 2			1.8	7.7
IR Result	<b>0.000</b>	14:10		
EC Result	<b>0.000</b>	14:10		
Blank Test	0.000	14:10		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **14:45**  
 Citation/Case Number: **ACETONE.30**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

*Acetone  
.30*

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	15:27		
Internal Standard	VERIFIED	15:28		
Subject Sample 1			1.9	8.1
IR Result	<b>0.001</b>	15:28		
EC Result	<b>0.000</b>	15:28		
Blank Test	0.000	15:29		
External Standard IR	0.079	15:29		
External Standard EC	0.076	15:29		
Blank Test	0.000	15:31		
Subject Sample 2			1.8	8.4
IR Result	<b>0.001</b>	15:31		
EC Result	<b>0.000</b>	15:31		
Blank Test	0.000	15:32		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **ACETON.45**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

*Acetone  
.45*

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	08:24		
Internal Standard	VERIFIED	08:24		
Subject Sample 1			1.8	8.2
IR Result	<b>0.003</b>	08:26		
EC Result	<b>0.000</b>	08:26		
Blank Test	0.000	08:26		
External Standard IR	0.079	08:26		
External Standard EC	0.077	08:26		
Blank Test	0.000	08:28		
Subject Sample 2			1.9	9.4
IR Result	<b>0.002</b>	08:29		
EC Result	<b>0.000</b>	08:29		
Blank Test	0.000	08:29		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **ACETONE .6**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

*Acetone  
6.0*

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	08:45		
Internal Standard	VERIFIED	08:45		
Subject Sample 1			2.0	8.8
IR Result	<b>0.004</b>	08:47		
EC Result	<b>0.000</b>	08:47		
Blank Test	0.000	08:47		
External Standard IR	0.078	08:47		
External Standard EC	0.076	08:47		
Blank Test	0.000	08:49		
Subject Sample 2			1.9	8.9
IR Result	<b>0.003</b>	08:50		
EC Result	<b>0.000</b>	08:50		
Blank Test	0.000	08:50		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:30**  
 Citation/Case Number: **ACTEONE .75**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE .75/ ACETONE/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

*Acetone  
.75*

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	09:01		
Internal Standard	VERIFIED	09:02		
Subject Sample 1			2.0	7.9
IR Result	<b>0.005</b>	09:03		
EC Result	<b>0.000</b>	09:03		
Blank Test	0.000	09:03		
External Standard IR	0.078	09:03		
External Standard EC	0.076	09:03		
Blank Test	0.000	09:05		
Subject Sample 2			2.1	8.7
IR Result	<b>0.004</b>	09:05		
EC Result	<b>0.000</b>	09:05		
Blank Test	0.000	09:06		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **ACETONE .9**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE .9/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	09:18		
Internal Standard	VERIFIED	09:18		
Subject Sample 1			1.9	7.6
IR Result	<b>0.006</b>	09:19		
EC Result	<b>0.000</b>	09:19		
Blank Test	0.000	09:20		
External Standard IR	0.078	09:20		
External Standard EC	0.076	09:20		
Blank Test	0.000	09:21		
Subject Sample 2			2.1	8.6
IR Result	<b>0.005</b>	09:22		
EC Result	<b>0.000</b>	09:22		
Blank Test	0.000	09:23		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **ACETONE 1.05**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 1.05/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	09:33		
Internal Standard	VERIFIED	09:33		
Subject Sample 1			1.9	8.4
IR Result	<b>0.006</b>	09:34		
EC Result	<b>0.000</b>	09:34		
Blank Test	0.000	09:35		
External Standard IR	0.078	09:35		
External Standard EC	0.076	09:35		
Blank Test	0.000	09:36		
Subject Sample 2			2.1	9.5
IR Result	<b>0.006</b>	09:37		
EC Result	<b>0.000</b>	09:37		
Blank Test	0.000	09:38		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **ACETONE 1.2**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE/ A/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	09:45		
Internal Standard	VERIFIED	09:45		
Subject Sample 1			2.1	8.4
IR Result	<b>0.006</b>	09:46		
EC Result	<b>0.000</b>	09:46		
Blank Test	0.000	09:47		
External Standard IR	0.078	09:47		
External Standard EC	0.076	09:47		
Blank Test	0.000	09:49		
Subject Sample 2			2.4	9.5
IR Result	<b>0.006</b>	09:49		
EC Result	<b>0.000</b>	09:49		
Blank Test	0.000	09:50		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **ACETONE 1.35**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 1.35/ ACETONE 1.35/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	10:05		
Internal Standard	VERIFIED	10:05		
Subject Sample 1			2.1	8.6
IR Result	<b>0.006</b>	10:06		
EC Result	<b>0.000</b>	10:06		
Blank Test	0.000	10:07		
External Standard IR	0.078	10:07		
External Standard EC	0.075	10:07		
Blank Test	0.000	10:09		
Subject Sample 2			2.1	8.6
IR Result	<b>0.006</b>	10:09		
EC Result	<b>0.000</b>	10:09		
Blank Test	0.000	10:10		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **ACETONE 1.5**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 1.5/ ACETONE/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:14		
Internal Standard	VERIFIED	10:14		
Subject Sample 1			2.3	8.6
IR Result	<b>0.007</b>	10:15		
EC Result	<b>0.000</b>	10:15		
Blank Test	0.000	10:16		
External Standard IR	0.078	10:16		
External Standard EC	0.076	10:16		
Blank Test	0.000	10:18		
Subject Sample 2			2.3	8.5
IR Result	<b>0.007</b>	10:18		
EC Result	<b>0.001</b>	10:18		
Blank Test	0.000	10:19		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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 Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **ACETONE 1.65**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 1.65/ ACETONE/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:24		
Internal Standard	VERIFIED	10:24		
Subject Sample 1			2.1	8.3
IR Result	<b>0.009</b>	10:25		
EC Result	<b>0.000</b>	10:25		
Blank Test	0.000	10:26		
External Standard IR	0.078	10:26		
External Standard EC	0.075	10:26		
Blank Test	0.000	10:28		
Subject Sample 2			2.2	8.9
IR Result	<b>0.008</b>	10:28		
EC Result	<b>0.000</b>	10:28		
Blank Test	0.000	10:29		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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 Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **10:00**  
 Citation/Case Number: **ACETONE 1.8**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 1.8/ ACETONE 1.8/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	10:37		
Internal Standard	VERIFIED	10:38		
Subject Sample 1			2.4	9.3
IR Result	<b>0.009</b>	10:39		
EC Result	<b>0.000</b>	10:39		
Blank Test	0.000	10:40		
External Standard IR	0.079	10:40		
External Standard EC	0.076	10:40		
Blank Test	0.000	10:41		
Subject Sample 2			2.2	9.6
IR Result	<b>0.008</b>	10:42		
EC Result	<b>0.000</b>	10:42		
Blank Test	0.000	10:43		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_

Location Signed \_\_\_\_\_

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **10:00**  
 Citation/Case Number: **ACETONE**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 1.95/ ACETONE/ A**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:48		
Internal Standard	VERIFIED	10:48		
Subject Sample 1			2.1	8.6
IR Result	<b>0.010</b>	10:49		
EC Result	<b>0.000</b>	10:49		
Blank Test	0.000	10:50		
External Standard IR	0.079	10:50		
External Standard EC	0.075	10:50		
Blank Test	0.000	10:52		
Subject Sample 2			2.0	8.6
IR Result	<b>0.009</b>	10:52		
EC Result	<b>0.000</b>	10:52		
Blank Test	0.000	10:53		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_  
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**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0081  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **10:00**  
 Citation/Case Number: **ACETONE 1.2**  
 Operator Name: **MCCOURT/ ELIZABETH/ A**  
 Subject Name: **ACETONE 2.1/ A/ -**  
 Subject Date of Birth: **01/01/2000**  
 External Standard Lot: **765817**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	11:10		
Internal Standard	VERIFIED	11:11		
Subject Sample 1			2.3	9.0
IR Result	<b>0.010</b>	11:12		
EC Result	<b>0.000</b>	11:12		
Blank Test	0.000	11:13		
External Standard IR	0.079	11:13		
External Standard EC	0.075	11:13		
Blank Test	0.000	11:15		
Subject Sample 2			2.6	10.5
IR Result	<b>0.009</b>	11:15		
EC Result	<b>0.001</b>	11:15		
Blank Test	0.000	11:16		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Location Signed \_\_\_\_\_



# METHOD VALIDATION DRAEGER ALCOTEST 9510

## INTERFERENCE/ ACETONE

DRAEGER ALCOTEST 9510 SERIAL NUMBER: ARAF-0002

Sim. Serial Number: DR4971 Thermometer Serial Number: DR4971

REAGENT LOT NUMBER: 113751

Acetone	SAMPLE 1		SAMPLE 2		Interference Detected? Y/N
	I/R VALUE	I/R VALUE	E/C VALUE	E/C VALUE	
	SAMPLE1	SAMPLE2	SAMPLE2	SAMPLE2	
0.000	0.000	0.000	0.000	0.000	N
0.150	0.000	0.000	0.000	0.000	N
0.300	0.002	0.001	0.000	0.000	N
0.450	0.003	0.003	0.000	0.000	N
0.600	0.004	0.003	0.000	0.000	N
0.750	0.005	0.004	0.000	0.000	N
0.900	0.005	0.005	0.000	0.000	N
1.050	0.006	0.006	0.000	0.000	N
1.200	0.006	0.006	0.000	0.000	N
1.350	0.007	0.006	0.000	0.000	N
1.500	0.007	0.007	0.000	0.000	N
1.650	0.008	0.007	0.000	0.000	N
1.800	0.009	0.008	0.001	0.001	N
1.950	0.009	0.009	0.001	0.002	N
2.100	0.011		0.002		Y

Attach all 9510 printed documents

CAM BERMAN  
NAME OF TECHNICIAN PERFORMING TEST/S

4-24-13 / 4-25-13  
DATE TESTED

J. McCourt  
NAME OF TECHNICIAN REVIEWING TEST/S

4/25/13  
DATE REVIEWED

ACCESSION SLIP  
WATER ONLY

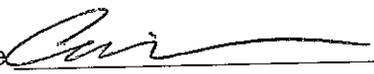
**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
Observation Period Began: **12:00**  
Citation/Case Number: **TEST**  
Operator Name: **BIRMAN/ CAMERON/ M**  
Subject Name: **TEST/WATER/ ONLY/ -**  
Subject Date of Birth: **01/01/1975**  
External Standard Lot: **LOT1\_6789012345678901234**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	12:43		
Internal Standard	VERIFIED	12:43		
Subject Sample 1			2.2	10.4
IR Result	<b>0.000</b>	12:44		
EC Result	<b>0.000</b>	12:44		
Blank Test	0.000	12:45		
Internal Standard IR	0.081	12:45		
External Standard EC	0.082	12:45		
Blank Test	0.000	12:47		
Subject Sample 2			2.3	12.1
IR Result	<b>0.000</b>	12:47		
EC Result	<b>0.000</b>	12:47		
Blank Test	0.000	12:48		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-24-13  
Location Signed SEATTLE TOX LAB

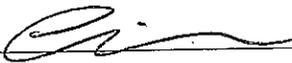
**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **14:00**  
 Citation/Case Number: **TEST ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ ACETONE .150/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	14:53		
Internal Standard	VERIFIED	14:53		
Subject Sample 1			1.6	10.3
IR Result	<b>0.000</b>	14:54		
EC Result	<b>0.000</b>	14:54		
Blank Test	0.000	14:55		
Internal Standard IR	0.081	14:55		
External Standard EC	0.081	14:55		
Blank Test	0.000	14:56		
Subject Sample 2			1.6	12.3
IR Result	<b>0.000</b>	14:57		
EC Result	<b>0.000</b>	14:57		
Blank Test	0.000	14:58		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-24-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/24/2013**  
 Observation Period Began: **14:00**  
 Citation/Case Number: **ACETONE 0.300**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **ACETONE/ .300/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	15:14		
Internal Standard	VERIFIED	15:14		
Subject Sample 1			1.7	11.5
IR Result	<b>0.002</b>	15:15		
EC Result	<b>0.000</b>	15:15		
Blank Test	0.000	15:16		
Internal Standard IR	0.082	15:16		
External Standard EC	0.081	15:16		
Blank Test	0.000	15:17		
Subject Sample 2			1.8	11.4
IR Result	<b>0.001</b>	15:18		
EC Result	<b>0.000</b>	15:18		
Blank Test	0.000	15:19		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-24-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST ACETONE.45**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST ACETONE/ .450/ -**  
 Subject Date of Birth: **01/01/1950**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	08:27		
Internal Standard	VERIFIED	08:28		
Subject Sample 1			2.6	11.4
IR Result	<b>0.003</b>	08:29		
EC Result	<b>0.000</b>	08:29		
Blank Test	0.000	08:29		
Internal Standard IR	0.081	08:29		
External Standard EC	0.080	08:29		
Blank Test	0.000	08:31		
Subject Sample 2			4.2	18.2
IR Result	<b>0.003</b>	08:32		
EC Result	<b>0.000</b>	08:32		
Blank Test	0.000	08:33		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST ACETONE.60**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST ACETONE/ 0.600/ -**  
 Subject Date of Birth: **01/01/1950**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	08:47		
Internal Standard	VERIFIED	08:47		
Subject Sample 1			2.2	10.3
IR Result	<b>0.004</b>	08:48		
EC Result	<b>0.000</b>	08:48		
Blank Test	0.000	08:49		
Internal Standard IR	0.081	08:49		
External Standard EC	0.081	08:49		
Blank Test	0.000	08:51		
Subject Sample 2			2.3	9.8
IR Result	<b>0.003</b>	08:51		
EC Result	<b>0.000</b>	08:51		
Blank Test	0.000	08:52		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

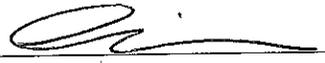
**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST ACETONE.75**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 0.750/ -**  
 Subject Date of Birth: **01/01/1950**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	09:07		
Internal Standard	VERIFIED	09:07		
Subject Sample 1			2.1	9.5
IR Result	<b>0.005</b>	09:08		
EC Result	<b>0.000</b>	09:08		
Blank Test	0.000	09:09		
Internal Standard IR	0.082	09:09		
External Standard EC	0.080	09:09		
Blank Test	0.000	09:11		
Subject Sample 2			2.5	10.9
IR Result	<b>0.004</b>	09:11		
EC Result	<b>0.000</b>	09:11		
Blank Test	0.000	09:12		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **08:00**  
 Citation/Case Number: **TEST/ACETONE .9**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ ACETONE 0.900/ -**  
 Subject Date of Birth: **01/01/1950**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	09:18		
Internal Standard	VERIFIED	09:18		
Subject Sample 1			2.6	10.7
IR Result	<b>0.005</b>	09:19		
EC Result	<b>0.000</b>	09:19		
Blank Test	0.000	09:20		
Internal Standard IR	0.081	09:20		
External Standard EC	0.080	09:20		
Blank Test	0.000	09:22		
Subject Sample 2			2.7	10.0
IR Result	<b>0.005</b>	09:22		
EC Result	<b>0.000</b>	09:22		
Blank Test	0.000	09:23		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.050/ -**  
 Subject Date of Birth: **01/01/1999**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	09:32		
Internal Standard	VERIFIED	09:32		
Subject Sample 1			2.6	11.7
IR Result	<b>0.006</b>	09:33		
EC Result	<b>0.000</b>	09:33		
Blank Test	0.000	09:34		
Internal Standard IR	0.081	09:34		
External Standard EC	0.080	09:34		
Blank Test	0.000	09:36		
Subject Sample 2			3.3	13.9
IR Result	<b>0.006</b>	09:36		
EC Result	<b>0.000</b>	09:36		
Blank Test	0.000	09:37		

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

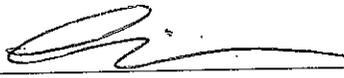
**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.200/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	09:45		
Internal Standard	VERIFIED	09:45		
Subject Sample 1			1.9	7.9
IR Result	<b>0.006</b>	09:46		
EC Result	<b>0.000</b>	09:46		
Blank Test	0.000	09:47		
External Standard IR	0.081	09:47		
External Standard EC	0.080	09:47		
Blank Test	0.000	09:49		
Subject Sample 2			2.1	9.5
IR Result	<b>0.006</b>	09:49		
EC Result	<b>0.000</b>	09:49		
Blank Test	0.000	09:50		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

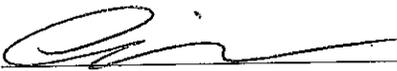
**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.350/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	09:56		
Internal Standard	VERIFIED	09:56		
Subject Sample 1			2.2	9.9
IR Result	<b>0.007</b>	09:57		
EC Result	<b>0.000</b>	09:57		
Blank Test	0.000	09:58		
External Standard IR	0.081	09:58		
External Standard EC	0.080	09:58		
Blank Test	0.000	10:00		
Subject Sample 2			2.3	9.4
IR Result	<b>0.006</b>	10:00		
EC Result	<b>0.000</b>	10:00		
Blank Test	0.000	10:01		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.500/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	10:14		
Internal Standard	VERIFIED	10:15		
Subject Sample 1			1.7	7.7
IR Result	<b>0.007</b>	10:16		
EC Result	<b>0.000</b>	10:16		
Blank Test	0.000	10:17		
Internal Standard IR	0.081	10:17		
External Standard EC	0.080	10:17		
Blank Test	0.000	10:18		
Subject Sample 2			2.0	8.2
IR Result	<b>0.007</b>	10:19		
EC Result	<b>0.000</b>	10:19		
Blank Test	0.000	10:20		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **09:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.650/ -**  
 Subject Date of Birth: **01/01/1900**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	10:25		
Internal Standard	VERIFIED	10:25		
Subject Sample 1			2.1	8.1
IR Result	<b>0.008</b>	10:26		
EC Result	<b>0.000</b>	10:26		
Blank Test	0.000	10:27		
Internal Standard IR	0.081	10:27		
External Standard EC	0.080	10:27		
Blank Test	0.000	10:29		
Subject Sample 2			2.2	9.0
IR Result	<b>0.007</b>	10:29		
EC Result	<b>0.000</b>	10:29		
Blank Test	0.000	10:30		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
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**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **10:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.800/ -**  
 Subject Date of Birth: **01/01/1900**  
 External Standard Lot: **LOT1\_6789012345678901234**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	10:37		
Internal Standard	VERIFIED	10:37		
Subject Sample 1			2.6	11.8
IR Result	<b>0.009</b>	10:39		
EC Result	<b>0.001</b>	10:39		
Blank Test	0.000	10:40		
External Standard IR	0.081	10:40		
External Standard EC	0.080	10:40		
Blank Test	0.000	10:41		
Subject Sample 2			2.6	12.4
IR Result	<b>0.008</b>	10:42		
EC Result	<b>0.001</b>	10:42		
Blank Test	0.000	10:43		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

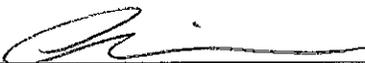
**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
SOFTWARE VERSION 8322798 0.6  
CONFIGURATION VERSION 8322796 2.0  
DATE OF LAST QAP: 04/24/2013

Analysis Date: **04/25/2013**  
 Observation Period Began: **10:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 1.950/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:46		
Internal Standard	VERIFIED	10:47		
Subject Sample 1			2.2	9.4
IR Result	<b>0.009</b>	10:48		
EC Result	<b>0.001</b>	10:48		
Blank Test	0.000	10:49		
External Standard IR	0.081	10:49		
External Standard EC	0.080	10:49		
Blank Test	0.000	10:51		
Subject Sample 2			2.2	11.0
IR Result	<b>0.009</b>	10:51		
EC Result	<b>0.002</b>	10:51		
Blank Test	0.000	10:52		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAF-0002  
 SOFTWARE VERSION 8322798 0.6  
 CONFIGURATION VERSION 8322796 2.0  
 DATE OF LAST QAP: 04/24/2013

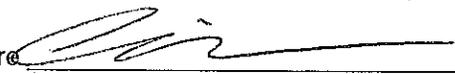
Analysis Date: **04/25/2013**  
 Observation Period Began: **10:00**  
 Citation/Case Number: **TEST/ACETONE**  
 Operator Name: **BIRMAN/ CAMERON/ M**  
 Subject Name: **TEST/ACETONE/ 2.100/ -**  
 Subject Date of Birth: **01/01/1990**  
 External Standard Lot: **LOT1\_6789012345678901234**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	10:57		
Internal Standard	VERIFIED	10:58		
Subject Sample 1			2.9	13.5
IR Result	<b>0.011</b>	10:59		
EC Result	<b>0.002</b>	10:59		
Blank Test	-----	---:--		
External Standard IR	-----	---:--		
External Standard EC	-----	---:--		
Blank Test	-----	---:--		
Subject Sample 2			-----	-----
IR Result	-----	---:--		
EC Result	-----	---:--		
Blank Test	-----	---:--		

**Test Not Complete: Status Code 8**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature  Date 4-25-13  
 Location Signed SEATTLE TOX LAB

# DRAEGER ALCOTEST 9510 CALIBRATION/ADJUSTMENT RECORD

SERIAL NUMBER: ARAH-0084  
 SOFTWARE VER.: 8322798 0.7  
 CONFIG. VER.: 8322796 2.2  
 TECHNICIAN: ZEPEDA/P  
 TIME/DATE BEGAN: 10:39 06/03/2013

CALIBRATION ADJUSTMENT PERFORMED: YES  
 BATCH#: 12039 REF VALUE: 0.0822 SIM#: DR2775 THERM#: DR2775

### CALIBRATION PROCEDURE

Results Units g/210L

Simulator #	<u>DR4517</u>		<u>DR2775</u>		<u>DR4703</u>		<u>DR4989</u>	
Sim Thermometer #	<u>DR4517</u>		<u>DR2775</u>		<u>DR4703</u>		<u>DR4989</u>	
QAP Batch #	<u>12038</u>		<u>12039</u>		<u>12041</u>		<u>T00014</u>	
Reference Value	<u>0.0407</u>		<u>0.0822</u>		<u>0.1546</u>		<u>0.2038</u>	
Sim Temp 34.0°C ± 0.2°C Before?	<u>YES</u>		<u>YES</u>		<u>YES</u>		<u>YES</u>	
	IR	EC	IR	EC	IR	EC	IR	EC
1	<u>0.040</u>	<u>0.040</u>	<u>0.081</u>	<u>0.080</u>	<u>0.153</u>	<u>0.152</u>	<u>0.204</u>	<u>0.206</u>
2	<u>0.040</u>	<u>0.040</u>	<u>0.081</u>	<u>0.081</u>	<u>0.154</u>	<u>0.153</u>	<u>0.205</u>	<u>0.207</u>
3	<u>0.040</u>	<u>0.041</u>	<u>0.082</u>	<u>0.082</u>	<u>0.154</u>	<u>0.155</u>	<u>0.207</u>	<u>0.209</u>
4	<u>0.041</u>	<u>0.041</u>	<u>0.082</u>	<u>0.082</u>	<u>0.154</u>	<u>0.155</u>	<u>0.207</u>	<u>0.210</u>
5	<u>0.041</u>	<u>0.041</u>	<u>0.082</u>	<u>0.082</u>	<u>0.154</u>	<u>0.156</u>	<u>0.207</u>	<u>0.211</u>
Sim Temp 34.0°C ± 0.2°C After?	<u>YES</u>		<u>YES</u>		<u>YES</u>		<u>YES</u>	
Mean	<u>0.0404</u>	<u>0.0406</u>	<u>0.0816</u>	<u>0.0814</u>	<u>0.1538</u>	<u>0.1542</u>	<u>0.2060</u>	<u>0.2086</u>
SD	<u>0.0005</u>	<u>0.0005</u>	<u>0.0005</u>	<u>0.0009</u>	<u>0.0004</u>	<u>0.0016</u>	<u>0.0014</u>	<u>0.0021</u>
Bias %	<u>-0.74</u>	<u>-0.25</u>	<u>-0.73</u>	<u>-0.97</u>	<u>-0.52</u>	<u>-0.26</u>	<u>1.08</u>	<u>2.36</u>
CV %	<u>1.24</u>	<u>1.23</u>	<u>0.61</u>	<u>1.11</u>	<u>0.26</u>	<u>1.04</u>	<u>0.68</u>	<u>1.01</u>

COMPLETE BREATH TEST: YES ESS LOT#: 668179 EXP DATE: 10/02/2013  
 INTERFERENCE TEST: YES BATCH#: 12060 SIM#: DR4521  
 ACETONE LOT#: 113751 THERM#: DR4521  
 INVALID SAMPLE: YES  
 REFERENCE BAROMETER S/N: 101949580

COMMENTS:

AS FOUND ESS RESULT: IR: \_\_\_\_\_ EC: \_\_\_\_\_

ZEPEDA/P  
 Technician Name

  
 Signature

13:15/6-3-13  
 Time/Date Procedure Completed

Reviewed by: K. DENTON KTD 6/4/13



# METHOD VALIDATION DRAEGER ALCOTEST 9510

## INTERFERENCE/ ACETONE

DRAEGER ALCOTEST 9510 SERIAL NUMBER: ARAH-0084

Sim. Serial Number: DR2775 Thermometer Serial Number: DR2775

REAGENT LOT NUMBER: 113751  
 Solution Batch T00011

	Acetone	I/R VALUE SAMPLE1	I/R VALUE SAMPLE2	E/C VALUE SAMPLE1	E/C VALUE SAMPLE2	Interference Detected? Y/N
1	0.000	.009	.009	.009	.010	N
2	0.150	.011	.010	.010	.010	N
3	0.300	.013	.012	.010	.010	N
4	0.450	.014	.013	.010	.010	N
5	0.600	.017		.010		Y
6	0.750	.019		.011		Y
7	0.900	.022		.011		Y
8	1.050					
9	1.200					
10	1.350					
11	1.500					
12	1.650					
13	1.800					
14	1.950					
15	2.100					

T00011  
 0.01 g/210L BP  
 2/25/14 exp

10%  
 10%

Attach all 9510 printed documents

<u>P Zepeda</u>	<u>6-4-13</u>
NAME OF TECHNICIAN PERFORMING TEST/S	DATE TESTED
<u>R D...</u>	<u>6/4/13</u>
NAME OF TECHNICIAN REVIEWING TEST/S	DATE REVIEWED

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
 SOFTWARE VERSION 8322798 0.7  
 CONFIGURATION VERSION 8322796 2.2  
 DATE OF LAST QAP: 06/04/2013

Analysis Date: **06/04/2013**  
 Observation Period Began: **13:00**  
 Citation/Case Number: **0.000**  
 Operator Name: **ZEPEDA/ P/ -**  
 Subject Name: **SMITH/ DOE/ -**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	13:28		
Internal Standard	VERIFIED	13:28		
Subject Sample 1			1.7	7.0
IR Result	<b>0.009</b>	13:29		
EC Result	<b>0.009</b>	13:29		
Blank Test	0.000	13:30		
Internal Standard IR	0.078	13:30		
External Standard EC	0.079	13:30		
Blank Test	0.000	13:32		
Subject Sample 2			1.7	8.0
IR Result	<b>0.009</b>	13:32		
EC Result	<b>0.010</b>	13:32		
Blank Test	0.000	13:33		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

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Officer Signature *Jones* Date 6/4/13  
 Location Signed Seattle LAB

*R.D. 6/4/13*

21 ~~SEA~~ Acetone

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
SOFTWARE VERSION 8322798 0.7  
CONFIGURATION VERSION 8322796 2.2  
DATE OF LAST QAP: 06/04/2013

Analysis Date: **06/04/2013**  
 Observation Period Began: **13:25**  
 Citation/Case Number: **0.150**  
 Operator Name: **ZEPEDA/ P/ -**  
 Subject Name: **SMITH/ DOE/ -**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	13:45		
Internal Standard	VERIFIED	13:45		
Subject Sample 1			1.7	9.6
IR Result	<b>0.011</b>	13:46		
EC Result	<b>0.010</b>	13:46		
Blank Test	0.000	13:47		
Internal Standard IR	0.079	13:47		
External Standard EC	0.079	13:47		
Blank Test	0.000	13:49		
Subject Sample 2			1.7	10.0
IR Result	<b>0.010</b>	13:50		
EC Result	<b>0.010</b>	13:50		
Blank Test	0.000	13:51		

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature  Date 6-4-13  
 Location Signed \_\_\_\_\_

1A 6-4-13

#2 ~~ET~~ Acetone

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
 SOFTWARE VERSION 8322798 0.7  
 CONFIGURATION VERSION 8322796 2.2  
 DATE OF LAST QAP: 06/04/2013

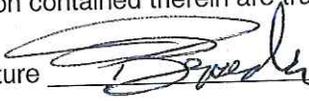
Analysis Date: **06/04/2013**  
 Observation Period Began: **13:45**  
 Citation/Case Number: **0.300**  
 Operator Name: **ZEPEDA/ P/ -**  
 Subject Name: **SMITH/ DOE/ -**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

<b>Breath Analysis</b>	<b>Result</b> g/210L	<b>Time</b> hh:mm	<b>Volume</b> liters	<b>Blowtime</b> seconds
Blank Test	0.000	14:20		
Internal Standard	VERIFIED	14:21		
Subject Sample 1			1.8	9.0
IR Result	<b>0.013</b>	14:22		
EC Result	<b>0.010</b>	14:22		
Blank Test	0.000	14:23		
Internal Standard IR	0.078	14:23		
External Standard EC	0.079	14:23		
Blank Test	0.000	14:24		
Subject Sample 2			1.8	9.3
IR Result	<b>0.012</b>	14:25		
EC Result	<b>0.010</b>	14:25		
Blank Test	0.000	14:26		

**Test Not Complete: Status Code 10**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature  Date 6-4-13  
 Location Signed \_\_\_\_\_ KD 6-4-13

23 ~~ETH~~ Acetone

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
SOFTWARE VERSION 8322798 0.7  
CONFIGURATION VERSION 8322796 2.2  
DATE OF LAST QAP: 06/04/2013

Analysis Date: **06/04/2013**  
 Observation Period Began: **14:25**  
 Citation/Case Number: **0.450**  
 Operator Name: **ZEPEDA/ P/ -**  
 Subject Name: **SMITH/ DOE/ -**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	14:45		
Internal Standard	VERIFIED	14:46		
Subject Sample 1			1.7	7.2
IR Result	<b>0.014</b>	14:46		
EC Result	<b>0.010</b>	14:46		
Blank Test	0.000	14:47		
Internal Standard IR	0.078	14:47		
External Standard EC	0.078	14:47		
Blank Test	0.000	14:49		
Subject Sample 2			1.7	9.0
IR Result	<b>0.013</b>	14:50		
EC Result	<b>0.010</b>	14:50		
Blank Test	0.000	14:51		

**Test Not Complete: Status Code 10**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature  Date 6-4-13  
 Location Signed \_\_\_\_\_

*KD 6-4-13*

*4 ~~ETH~~ Acetone*

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
 ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
 SOFTWARE VERSION 8322798 0.7  
 CONFIGURATION VERSION 8322796 2.2  
 DATE OF LAST QAP: 06/04/2013

Analysis Date: **06/04/2013**  
 Observation Period Began: **14:45**  
 Citation/Case Number: **0.600**  
 Operator Name: **ZEPEDA/ P/ -**  
 Subject Name: **SMITH/ D/ -**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

<b>Breath Analysis</b>	<b>Result g/210L</b>	<b>Time hh:mm</b>	<b>Volume liters</b>	<b>Blowtime seconds</b>
Blank Test	0.000	15:11		
Internal Standard	VERIFIED	15:12		
Subject Sample 1			1.7	8.6
IR Result	<b>0.017</b>	15:12		
EC Result	<b>0.010</b>	15:12		
Blank Test	-----	--:--		
Internal Standard IR	-----	--:--		
External Standard EC	-----	--:--		
Blank Test	-----	--:--		
Subject Sample 2			-----	-----
IR Result	-----	--:--		
EC Result	-----	--:--		
Blank Test	-----	--:--		

**Test Not Complete: Status Code 8**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature  Date 6-4-13  
 Location Signed \_\_\_\_\_ KP 6-4-13

#S ~~ETH~~ Acetone

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
SOFTWARE VERSION 8322798 0.7  
CONFIGURATION VERSION 8322796 2.2  
DATE OF LAST QAP: 06/04/2013

Analysis Date: **06/04/2013**  
 Observation Period Began: **15:10**  
 Citation/Case Number: **0.750**  
 Operator Name: **ZEPEDA/ P/ -**  
 Subject Name: **SMITH/ D/ -**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	15:28		
Internal Standard	VERIFIED	15:28		
Subject Sample 1			1.7	8.9
IR Result	<b>0.019</b>	15:29		
EC Result	<b>0.011</b>	15:29		
Blank Test	-----	--:--		
Internal Standard IR	-----	--:--		
External Standard EC	-----	--:--		
Blank Test	-----	--:--		
Subject Sample 2			-----	-----
IR Result	-----	--:--		
EC Result	-----	--:--		
Blank Test	-----	--:--		

**Test Not Complete: Status Code 8**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature  Date 6-4-13  
 Location Signed \_\_\_\_\_

*KD 6-4-13*

*6 ETH Acetone*

**WASHINGTON STATE PATROL  
EVIDENTIARY SUBJECT TEST**  
ALCOTEST 9510 SERIAL NUMBER ARAH-0084  
SOFTWARE VERSION 8322798 0.7  
CONFIGURATION VERSION 8322796 2.2  
DATE OF LAST QAP: 06/04/2013

Analysis Date: **06/04/2013**  
 Observation Period Began: **15:15**  
 Citation/Case Number: **0.900**  
 Operator Name: **ZEPEDA/ P/-**  
 Subject Name: **SMITH/ D/-**  
 Subject Date of Birth: **01/01/1980**  
 External Standard Lot: **946484**

Breath Analysis	Result g/210L	Time hh:mm	Volume liters	Blowtime seconds
Blank Test	0.000	15:42		
Internal Standard	VERIFIED	15:42		
Subject Sample 1			1.7	8.7
IR Result	<b>0.022</b>	15:43		
EC Result	<b>0.011</b>	15:43		
Blank Test	-----	--:--		
Internal Standard IR	-----	--:--		
External Standard EC	-----	--:--		
Blank Test	-----	--:--		
Subject Sample 2			-----	-----
IR Result	-----	--:--		
EC Result	-----	--:--		
Blank Test	-----	--:--		

**Test Not Complete: Status Code 8**

During this test, I followed all protocols set in place by the Washington State Toxicologist for the purposes of this test. At the time of this test I was certified to operate the Alcotest 9510 and possessed a valid permit issued by the State Toxicologist. I observed the subject during the entire observation period and during that time they did not eat, drink, smoke, vomit, or place any foreign substances in their mouth.

I certify (or declare) under penalty of perjury under the laws of the state of Washington that the statements on this document and information contained therein are true, correct, and accurate. (RCW 9A.72.085.)

Officer Signature  Date 6-4-13  
 Location Signed \_\_\_\_\_

147 6-4-13

#7 ~~ETH~~ Acetone





June 4, 2013

Sgt. Ken Denton  
WSP Impaired Driving Section  
Breath Test Program  
811 East Roanoke St.  
Seattle WA 98102

RE: Dräger Alcotest® 9510 Washington Firmware and Configuration Versions

Dear Sgt. Denton,

Your organization performed a comprehensive validation on the Alcotest® 9510 in Seattle the week of April 20, 2013. The validation was performed with these software components on the instruments:

- WinCE Software part number 8322797 version 5.4
- Measurement System Firmware part number 8322798 version 0.6
- Configuration part number 8322796 version 2.0

You recently requested some descriptions of the subsequent modifications to the instrument's versions and explanations of some aspects of the instrument's operation. My goal is to have this letter provide this information.

#### **Software Component Modifications**

Since the validation, the Measurement System Firmware changed to version 0.7 and the Configuration changed to version 2.2. None of the modifications affect the analytical measurement algorithms of the instrument. A listing of changes to the software components follows:

- During an observation countdown timer period if the test operator presses the "R" button then selects the "Continue" button, the instrument behavior was modified to return to count down only the remaining time in the observation period.
- Modified a checking routine which precedes any sample collection on the instrument to ensure the fuel cell piston motor is in a known starting position. This addresses
- Reduced the interference detection cut-off limit from 50ug/L (0.0105g/210L) to 30ug/L (0.0063g/210L). The interfering substance detection difference criteria remains the same as before: if the EC is greater than or equal to 38ug/L (0.008g/210L) or 10% of the IR (whichever is greater). However, if a subject breath test IR result is less than the cut-off limit, the instrument will not trigger the Interfering Substance Detection status message. For example, if the subject test results were somehow IR=0.005g/210L and the EC=0.014g/210L, no Interfering Substance Detected status message would be

Draeger Safety Diagnostics, Inc.  
4040 W Royal Lane,  
Suite 136  
Irving, TX 75063  
Tel +1 972 929-1100  
Fax +1 972 929-1260

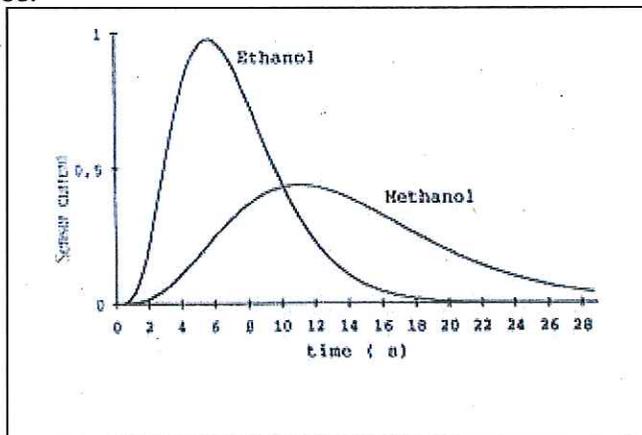
generated even though the difference between the results was 0.009g/210L. This is because the IR result was under the interference detection cut-off limit.

- Modified the Evidential Subject and Training test sequences to ensure the "Sample Outside of 10%" check of the subject values is not performed for low (<0.010 g/210L) results.
- The Calibration/Adjustment Record printout formatting was modified as follows:
  - Subheader text modified from "CALIBRATION AS/FOUND PROCEDURE" to "CALIBRATION PROCEDURE".
  - Added section for "AS FOUND ESS RESULT" between the comments row and technician name row. Created two underscore sections "IR:" and "EC:" for the technicians to enter values.
  - Removed instrument-generated Time/Date stamp from Technician Name line. The date information will be manually entered by the technicians instead.

### Interfering Substance Detection Explanation

Two methods are employed by the instrument for detection of interfering substances. The most familiar method compares the IR and EC results to ensure they are within preset tolerance limits.

The additional method is a kinetic check. During the calibration check procedure, the instrument references the fuel cell reaction decay of pure ethanol in the gas sample as a kinetic baseline. The instrument will generate an Interfering Substance Detected status message if the analysis of any of the subject's breath tests reveals different characteristic parameters for the kinetic response.



This generalized illustration is useful to compare the electrochemical sensor response to ethanol and methanol.



### **Mouth Alcohol Detection Explanation**

Washington's procedures refer to the term "mouth alcohol" as "invalid sample". For this discussion I use these terms interchangeably. During a subject's breath sample, the IR alcohol vs. time profile is taken in real time. A normal profile is characterized by a sharp increase in the concentration at the beginning of the blow followed by a more moderate increase in the concentration until the end of the blow. For a regular breath test, the concentration increases with time and does not decrease. In the case of mouth alcohol, the alcohol vs. time profile changes considerably. There can be sections with decreasing concentration resulting in a negative slope. Competitive IR-technology instruments simply search for and identify the negative slope as the sole mechanism to identify mouth alcohol. Your Alcotest® 9510 employs an advanced mouth alcohol detection algorithm that identifies the simple negative slope scenarios but also highly complex mouth alcohol scenarios which may never exhibit a negative slope. This advanced algorithm is highly sensitive to the sudden changes in the slope (positive and/or negative) which are strongly indicative of the wide array of possible mouth alcohol events.

### **Impact on Validation Findings**

These explanations and functionality modifications do have a relation to some of the validation results and are described here:

- Some validation tests utilizing interfering substances generated differences in IR and EC readings of 0.008g/210L and greater, which did not trigger the Interfering Substance Detected status message. In these scenarios, the IR result was under the 0.0105g/210L interference cut-off level below which the status message will not be generated. The validation experiments began with a 0.000g/210L deionized water solution. The software has since been modified to reduce the interference cut-off level to 0.0063g/210L. This, along with beginning the experiments with an ethanol solution of 0.010g/210L or greater, should allow the validation experiments to observe the detection algorithm limits.
- The "Samples Outside of 10%" check of the subject values was previously occurring for all samples regardless of value. In some instances during the validation tests the "Samples Outside of 10%" status message was generated on some subject test results that were under 0.010g/210L. This algorithm was not performing as specified in the customer requirements. The software was modified to match the customer requirements to only perform the "Samples Outside of 10%" check if all four subject results were 0.010g/210L or greater.
- Some validation tests generated Invalid Sample results, which is the status message for detection of mouth alcohol. Due to the advanced mouth alcohol detection algorithm employed, the instrument is highly sensitive to sudden changes in the slope. In the cases where Invalid Sample was generated, subsequent tests with an identical setup (other than the passage of time) did not show Invalid Sample. This likely indicates that the sample delivery introduced some fluctuations in the IR profile which were enough to trigger Invalid Sample. This could occur with condensation in the connection tubing or



via a fast flow rate into the simulator causing bubbles to splash against the higher-temperature simulator base.

Should you have any questions regarding this information or anything else, please always feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Brian Shaffer". The signature is written in a cursive style with a prominent "B" and "S".

Brian Shaffer  
Bid & Tender Manager

Draeger Safety Diagnostics, Inc.  
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